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APPLICATION NO.	] 1	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/633,977	10/633,977 08/04/2003		Yoshiki Kuhara	12852-019001	5634	
26211	7590	04/07/2005		EXAMINER		
FISH & RI		SON P.C. ER 52ND FLOOR	DUPUIS, DEREK L			
153 EAST 5			ART UNIT	PAPER NUMBER		
NEW YORK, NY 10022-4611				2883		
				DATE MAILED: 04/07/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		10/633,977	KUHARA, YOSHIKI				
	Office Action Summary	Examiner	Art Unit				
		Derek L. Dupuis	2883				
	The MAILING DATE of this communication a		correspondence address				
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status	·						
1)	Responsive to communication(s) filed on						
		is action is non-final.					
3)	Since this application is in condition for allow	ance except for formal matters, pi	rosecution as to the merits is				
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) ☐ Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) 4,5,8 and 9 is/are withdrawn from consideration.  5) ☐ Claim(s) is/are allowed.  6) ☐ Claim(s) 1-3,6,7 and 10-12 is/are rejected.  7) ☐ Claim(s) is/are objected to.  8) ☐ Claim(s) are subject to restriction and/or election requirement.							
Application Papers							
9)⊠	The specification is objected to by the Exami	ner.					
10)⊠ The drawing(s) filed on <u>04 August 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority (	ınder 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority documents have been received.  2. ☐ Certified copies of the priority documents have been received in Application No  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.							
Attachmen	t(s)						
1) Notic 2) Notic 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date 10/14/2003.	4) Interview Summar Paper No(s)/Mail D 5) Notice of Informal 6) Other:	y (PTO-413) Date Patent Application (PTO-152)				

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#### DETAILED ACTION

#### Election/Restrictions

1. Applicant's election without traverse of Group I (claims 1-3, 6, 7, and 10-12) in the reply filed on 2/14/2005 is acknowledged.

2. Claims 4, 5, 8, and 9 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected species, there being no allowable generic or linking claim. Election was made without traverse in the reply filed on 2/14/2005.

### **Priority**

3. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Information Disclosure Statement

4. The information disclosure statement (IDS) submitted on 10/14/2003 has been considered by the examiner.

# Specification

5. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

## Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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7. Claims 1-3, 6, 7, and 10-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over *Nobuhara et al (US 2001/0019648 A1)* in view of *Kato et al (US 6,273,620 B1)*.

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- 8. Regarding claims 1 and 10-12, Nobuhara et al teach an optical module as shown in figure

  1. The module includes a column-shaped mounting member (16) having a through hole (20)

  extending in a direction of the central axis of the mounting member. The through hole is formed

  by partially incising a part of the mounting member so as to expose the interior surface of the

  through hole (see paragraph 81). The exposed interior surface of the through hole functions as a

  groove. An optical fiber (22) is inserted in the through hole and is secured in such a way so that

  the optical fiber protrudes with a specified length onto the mounting surface (see paragraph 81).

  Nobuhara et al do not teach that the fiber has a Bragg grating formed on the protruding part of
- 9. Regarding claims 2 and 3, Nobuhara et al in view of Kato et al teach an optical module as discussed above in reference to claim 1. Kato et al teach that the Bragg grating is used with a semiconductor optical amplifier to make an optical resonator (see column 1, lines 23-30 of Kato et al). The semiconductor optical amplifier is mounted on the same surface as the protruding portion of the optical fiber (see column 3, line 66 to column 4, line 9 of Kato et al).

the optical fiber. However, Kato et al teach an optical module comprising a ferrule containing an

optical fiber with a Bragg grating near the tip of the fiber (see column 3, lines 21-43).

- 10. Regarding claims 6 and 7, Nobuhara et al in view of Kato et al teach an optical module as discussed above in reference to claim 1. Nobuhara et al teach that the mounting member is made of a ceramic material, specifically, zirconia (see paragraph 80).
- 11. It would have been obvious to one of ordinary skill in the art at the time of invention to modify the module of Nobuhara et al to include a Bragg grating formed in the protruding part of

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the optical fiber as taught by Kato et al for the purpose of creating an optical resonator (see

column 1, lines 23-30 of Kato et al). A motivation for using the mounting member of Nobuhara

to mount the optical fiber with the Bragg grating would be to prevent the generation of fiber

bends and to make the fiber more resistant to temperature variations (see paragraph 88).

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Derek L. Dupuis whose telephone number is (571) 272-3101.

The examiner can normally be reached on Monday - Friday 8:30am-4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Frank G. Font can be reached on (571) 272-2415. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Derek L. Dupuis

QU (

Group Art Unit 2883

Frank G. Font Supervisory Patent Examiner

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Technology Center 2800